



N THE UNITED STATES PATENT AND TRADEMARK OFFICE

| Applicant  | : | Leivan DeVeylder et al                  | Examiner: ) Examiner: ) |
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| Serial No. | : | 09/574,735                              | ) ) Art Unit:           |
| Filed      | : | May 18, 2000                            | ) 1643                  |
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For : CYCLIN-DEPENDENT KINASE INHIBITORS

AND USES THEREOF

### INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents Washington, D.C. 20231

Dear Sir:

In accordance with 37 C.F.R. §§ 1.97 and 1.98, it is requested that the following disclosures, which are also listed on the attached Form PTO-1449, be made of record in the above-identified case.

- 1. Burssens S., et al. (1998) "The cell cycle in *Arabidopsis*", *Plant Physiol. Biochem 36(1-2):* 9-19.
- 2. Burssens S., et al. (1998) "Identification of novel cell cycle genes in *Arabidopsis thaliana*", current abstract *Plant Science and Biotechnology in Agriculture 36*.
- 3. Chen, J., et al. (1996) "Cyclin-Binding Motifs Are Essential For The Function Of p21<sup>CIP1</sup>", *Molecular and Cellular Biology 16(9):* 4673-4682.
- 4. de Almedia Engler. J., et al. (1999) "Molecular Markers And Cell Cycle Inhibitors Show The Importance Of Cell Cycle Progression In Nematode-Induced Galls And Syncytia", *Plant Cell 11:* 793-808.
- 5. Doerner, P., et al. (April 11, 1996) "Control of root growth and development by cyclin expression", *Nature 380*: 520-523.

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- 6. Doonan, J. (1996) "Plant Growth: Roots In The Cell Cycle", Current Biology

  6(7): 788-789.

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- 7. Forsburg, Susan L. (2000) "Themes and variations: the First Salk Institute Cell Cycle Meeting, 18-22 June 1999", *Biochimica et Biophysica Acta 1470*: R13-R16.
- 8. Fountain, M.D. (November 27, 1997) "Chenopodium rubrum G1 cyclindependent kinase inhibitor mRNA, complete cds", EMBL Accession No. AJ002173.
- 9. Hemerly A.S., et al. (1999) "Cell Cycle Control And Plant Morphogenesis: Is There An Essential Link?" *Bioessays 21:* 29-37.
- 10. Hemerly, A., et al., (December 1993) "cdc2a Expression in Arabidopsis is Linked with Competence for Cell Division", *The Plant Cell* 5: 1711-1723.
- 11. Hemerly et al. (1995) "Dominant Negative Mutants of the CDC2 Kinase Uncouple Cell Division From Iterative Plant Development", *Embo Journal* 14(16): 3925-3936.
- 12. Hinds, Phil (1999) "The cell cycle Cold Spring Harbor, 20-24 May 1998", Biochimica et Biophysica Act 1423: R63-R67.
- 13. Huntley, Rachel P., et al. (1999) "The Plant Cell Cycle", *Plant Biology 2:* 447-453.
- 14. Inze, D., et al. (1999) "Trends In Plant Cell Cycle Research", *Plant Cell 11(1):* 1-4.
- 15. Jacqmard, A., et al. (1999) "Expression Of CKS1At In *Arabidopsis thaliana* Indicates A Role For The Protein In Both The Mitotic And The Endoreduplication Cycle", *Planta 207*: 496-504.
- 16. LaBaer, J., et al. (1997) "New Functional Activities For The p21 Family of CDK Inhibitors", *Genes & Development 11*: 847-862.
- 17. Lui, H., et al. (2000) "The Arabidopsis Cdc2a-Interacting Protein ICK2 Is Structurally Related To ICK1 and is a potent inhibitor of cyclin-dependent kinase activity in vitro", *Plant Journal 21(4)*: 379-385.
- 18. Mironov, V., et al. (1999) "Cyclin-Dependent Kinases And Cell Division In Plants-The Nexus", *Plant Cell. 11:* 509-522.

- 19. Nakamura Y. (April 14, 1998) "Arabidopsis thaliana genomic DNA, chromosome 5, TAC clone:K24G6" EMBL Accession No. AB012242.
- 20. Nakayama, K., et al. (1998) "Cip/Kip Cyclin-Dependent Kinase Inhibitors: Brakes Of The Cell Cycle Engine During Development", *Bioessays 20*: 1020-1029.
- 21. Niebel, A., et al. (1996) "Induction of cdc2a and cyc1At Expression in *Arabidopsis thaliana* During Early Phases of Nematode-Induced Feeding Cell Formation", *Plant Journal* 10(6): 1037-1043.
- 22. Planchais, S. (1997) "Roscovitine, a novel cyclin-dependent kinase inhibitor, characterizes restriction point and G2/M transition in tobacco By-2 cell suspension", *The Plant Journal* 12(1): 191-202.
- 23. Pyke, K, et al. (1999) "Cellular Differentiation and Leaf Morphogenesis in *Arabdopsis*", *Critical Reviews in Plant Sciences* 18(4): 527-546.
- 24. Reed, S. I. (1996) "G1/S Regulatory Mechanisms From Yeast To Man", *Prog. Cell Cycle Res. 2*: 15-27.
- 25. Veylder De, et al. (1997) "The Arabidopsis CKS1 At Protein Binds The Cyclin-Dependent Kinases CDC2AAT and CDC2BAT", Febs Letters 412: 446-452.
- 26. Wang, H., et al. (1997) "A Plant Cyclin-Dependent Kinase Inhibitor Gene", *Nature 386*: 451-452.
- 27. Wang, H., et al. (1998) "ICK1, A Cyclin-Dependent Protein Kinase Inhibitor From *Arabidopsis thaliana* Interacts With Both Cdc2a and CycD3, And Its Expression Is Induced By Abscisic Acid", *Plant Journal* 15(4): 501-510.
- 28. Wang H., et al. (1997) "Arabidopsis thaliana cyclin-dependent kinase inhibitor protein (ICK1) mRNA, complete cds", EMBL Accession No. U94772, April 29, 1997.
- 29. International PCT Application No. WO 99/64599, to Agriculture and Agrifood Canada, published December 16, 1999.
- 30. International PCT Application No. W099/14331, to CropDesign N.V., published March 25, 1999.
- 31. International PCT Application No. WO 97 26327, to Fred Hutchinson Cancer Research Center, published July 24, 1997.

- 32. International PCT Application No. WO 00/60087, to E. I. Du Pont De Nemours and Company, published October 12, 2000.
- 33. International PCT Application No. WO 96 31534 A, to Sloan Kettering Cancer Institute, published October 10, 1996.
- 34. International PCT Application No. WO 92 09685 A, to University of Australia, published June 11, 1992.
- 35. International PCT Application No. WO 97 26327 A, to Fred Hutchinson Cancer Research Center, published July 24, 1997.
- 36. International PCT Application No. WO 97 20842 A, to Centre National De La Recherche Scientifique, published October 10, 1996.
- 37. International PCT Application No. WO 97 16447 A, to Mitotix, Inc., published May 9, 1997.
- 38. International PCT Application No. WO 93 15213 A, to Zeneca Limited, published August 5, 1993.
  - 39. U.S. Patent No. 5,750,862 to Peter C. L. John, et al., issued May 12, 1998.
  - 40. U.S. Patent No. 6,087,175 to Peter C. L. John, et al., issued July 11, 2000.

An Information Disclosure Statement was filed in the parent case, U.S. Serial No. 09/526,597. References 5, 6, 8, 10, 11, 19, 22, 25-28, 31, 33-34, 36, 37, and 38 (listed above), were previously submitted in the parent application, which application is relied upon for an earlier filing date under 35 U.S.C. § 120. In accordance with 37 C.F.R. § 1.98(d), copies of the previously submitted references are not submitted herewith.

Consideration of this Information Disclosure Statement is respectfully requested, since the art provided may be material to the examination of the present invention as defined in 37 C.F.R. §1.56(a).

Inasmuch as this Information Disclosure Statement is being submitted prior to the issuance of an Official Action on the merits, no fee, certification or petition is required by Applicants.

Respectfully submitted,

Date: January 5, 2001

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Registration No. 34,697

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CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8(a)

I certify that the attached correspondence is being deposited on / S / O / with the U.S. Postal Service as first class mail under 37 C.F.R. § 1.8 and addressed to:

Assistant Commissioner for Patents, Washington, D.C. 20231.

Maria I. Matos

|   |                                      | SIPA             | Sheet 1 of 6           |
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| U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | ATTY. DOCKET NO.                     | 10.6             | SERIAL NO.             |
|   | 2283/301                             | JAN 0 8 2001 A   | 09/574,735             |
| INFORMATION DISCLOSURE<br>STATEMENT BY APPLICANT        | APPLICANT<br>Leivan DeVeylder et al. | PART TRANSACTION |                        |
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| EXAMINER<br>INITIAL | REF | DOCUMENT<br>NUMBER | DATE      | NAME                     | CLASS | SUBCLASS | FILING DATE IF APPRO- PRIATE |
|---------------------|-----|--------------------|-----------|--------------------------|-------|----------|------------------------------|
|                     | AA  | 5,750,862          | 5/12/1998 | Peter C. L. John, et al. |       |          |                              |
|                     | AB  | 6,087,175          | 7/11/2000 | Peter C. L. John, et al. |       | <u> </u> |                              |
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| AH  | WO 99 64599        | 12/16/99 | PCT     |       |          |  |
| AI  | WO 99 14331        | 3/25/99  | PCT     |       |          | _  |
| AJ  | WO 97 26327 A      | 7/24/97  | PCT     |       |          |  |

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| AL      | Burssens S., et al. (1998) "Identification of novel cell cycle genes in Arabidopsis thaliana", current abstract Plant Science and Biotechnology in Agriculture 36. |
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| AM      | Chen, J., et al. (1996) "Cyclin-Binding Motifs Are Essential For The Function Of p21 <sup>CIP1</sup> ", Molecular and Cellular Biology 16(9): 4673-4682.           |
| AN      | de Almedia Engler. J., et al. (1999) "Molecular Markers And Cell Cycle Inhibitors Show The Importance Of Cell Cycle  |
|         | Progression In Nematode-Induced Galls And Syncytia", Plant Cell 11: 793-808.   |
| . AO    | Doerner, P., et al. (April 11, 1996) "Control of root growth and development by cyclin expression", <i>Nature 380</i> :520-523.                                    |
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| ВН     | WO 00 60087        | 10/12/00 | PCT     |       |          |  |
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| ВК       | Doonan, J., (1996) "Plant Growth: Roots I  | In The Cell Cycle", Current Biology 6(7): 788-789.                                      |  |  |  |
|----------|--|---|--|--|--|
| BL       | Forsburg, Susan L. (2000) "Themes and va   | ariations: the First Salk Institute Cell Cycle Meeting, 18-22 June 1999", Biochimica et |  |  |  |
|          | Biophysica Acta 1470: R13-R16.   |   |  |  |  |
| ВМ       | Fountain, M.D., (November 27, 1997) "Chenopodium rubrum G1 cyclin-dependent kinase inhibitor mRNA, complete cds." EMBL Accession No. AJ002173. |   |  |  |  |
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| BN       | Hemerly A.S., et al. (1999) "Cell Cycle Control And Plant Morphogenesis: Is There An Essential Link?" Bioessays 21: 29-37.                     |   |  |  |  |
| ВО       | Hemerly, A., et al., (December 1993) "cdc2a Expression in Arabidopsis is Linked with Competence for Cell Division", <i>The</i>                 |   |  |  |  |
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| CL       | L        | Hinds, Phil (1999) "The cell cycle Cold Spring Harbor, 20-24   | May 1998", Biochimica et Biophysica Act 1423:R63-R67.        |  |  |  |  |
| CM       | М        | Huntley, Rachel P., et al. (1999) "The Plant Cell Cycle", Plan | nt Biology 2: 447-453.                                       |  |  |  |  |
| CN       | N        | Inze, D., et al. (1999) "Trends In Plant Cell Cycle Research", | Plant Cell 11(1): 1-4.                                       |  |  |  |  |
| CO       | 0        | Jacqmard, A., et al. (1999) "Expression Of CKS1At In Arabic    | dopsis thaliana Indicates A Role For The Protein In Both The |  |  |  |  |
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| DH  | WO 93 15213 A      | 8/5/93 | PCT     |       |          |  |
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| DL  | Lui, H., et al. (2000) "The Arabidopsis Cdc2a-Interacting Protein ICK2 Is Structurally Related To ICK1 and is a potent inhibitor |  |  |  |  |
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| U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | ATTY. DOCKET NO.                     | 10126            | SERIAL NO.<br>09/574,735 |
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| EK       | Niebel, A., et al. (1996) "Induction of cdc2a and cyc1At Expression in Arabidopsis thaliana During Early Phases of                 |  |  |  |  |
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| EL       | Planchais, S., (1997) "Roscovitine, a novel cyclin-dependent kinase inhibitor, characterizes restriction point and G2/M transition |  |  |  |  |
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|          | <i>18(4):</i> 527-546.   |  |  |  |  |
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| EO       | Veylder De, et al. (1997) "The Arabidopsis CKS1 At Protein Binds The Cyclin-Dependent Kinases CDC2AAT and                          |  |  |  |  |
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| FK       | Wang, H., et al. (1997) "A Plant Cyclin-Dependent Kinase Inhibitor Gene", Nature 386: 451-452.                           |
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| FL       | Wang, H., et al. (1998) "ICK1, A Cyclin-Dependent Protein Kinase Inhibitor From Arabidopsis thaliana Interacts With Both |
|          | Cdc2a and CycD3, And Its Expression Is Induced By Abscisic Acid", Plant Journal 15(4): 501-510.                          |
| FM       | Wang H., et al. (1997) "Arabidopsis thaliana cyclin-dependent kinase inhibitor protein (ICK1) mRNA, complete cds", EMBL  |
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